

5509797.txt  
SEQUENCE LISTING

<110> Gregorio Aversa  
Frank Kolbinger  
José M. Carballido Herrera  
András Aszódi  
José W. Saldanha  
Bruce M. Hall

<120> Therapeutic binding molecules

<130> Not Yet Known

<160> 30

<170> PatentIn version 3.1

<210> 1

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<213> Artificial

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<221> MISC\_FEATURE

<223> Part of the amino acid sequence of chimeric light chain

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Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly  
1 5 10 15

Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Asn Ile Gly Thr Ser  
20 25 30

Ile Gln Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile  
35 40 45

Arg Ser Ser Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Ser  
 65 70 75 80

Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser Asn Thr Trp Pro Phe  
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Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 2

<211> 118

<212> PRT

<213> Artificial

<220>

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<223> Part of the amino acid sequence of chimeric heavy chain

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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Ile Ile His Trp Val Lys Gln Glu Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45

Gly Tyr Phe Asn Pro Tyr Asn His Gly Thr Lys Tyr Asn Glu Lys Phe  
 50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Gly Pro Tyr Ala Trp Phe Asp Thr Trp Gly Gln Gly Thr  
 100 105 110

Thr Val Thr Val Ser Ser

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&lt;210&gt; 3

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;223&gt; Amino acid sequence of chimeric light chain

&lt;400&gt; 3

Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly  
 1 5 10 15

Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Asn Ile Gly Thr Ser  
 20 25 30

Ile Gln Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile  
 35 40 45

Arg Ser Ser Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly  
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Ser  
 65 70 75 80

Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser Asn Thr Trp Pro Phe  
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
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Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145 150 155 160

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Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
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<210> 4

<211> 448

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<223> Amino acid sequence of chimeric heavy chain

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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Ile Ile His Trp Val Lys Gln Glu Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Phe Asn Pro Tyr Asn His Gly Thr Lys Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Ser Gly Pro Tyr Ala Trp Phe Asp Thr Trp Gly Gln Gly Thr  
100 105 110

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Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
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 Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser  
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 Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr  
 210 215 220  
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser  
 225 230 235 240  
 Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg  
 245 250 255  
 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro  
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 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala  
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 Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys  
 355 360 365

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Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser  
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp  
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser  
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala  
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Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
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<210> 5

<211> 321

<212> DNA

<213> Artificial

<220>

<221> misc\_feature

<223> Nucleotide sequence encoding a polypeptide of SEQ ID NO:1

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aggtttagtg gcagtggatc agggacagat ttactctta gcatcaacag tgtggagtct	240
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<210> 6

<211> 354

<212> DNA

<213> Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Nucleotide sequence encoding a polypeptide of SEQ ID NO:2

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cctggtcagg gccttgaatg gattggatat tttaatcctt acaatcatgg tactaagtac      180
aatgagaagt tcaaaggcag ggccacacta actgcagaca aatcctccaa cacagcctac      240
atggacctca gcagcctgac ctctgaggac tctgcatctt actactgtgc aagatcagga      300
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&lt;210&gt; 7

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

<223> Part of amino acid sequence of humanised light chain designated h  
umV2 (humV2 = VLm)

&lt;400&gt; 7

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Asp Ile Leu Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1           5           10           15
Glu Arg Ala Thr Phe Ser Cys Arg Ala Ser Gln Asn Ile Gly Thr Ser
20           25           30
Ile Gln Trp Tyr Gln Gln Lys Thr Asn Gly Ala Pro Arg Leu Leu Ile
35           40           45
Arg Ser Ser Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
50           55           60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65           70           75           80

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Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Thr Trp Pro Phe  
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Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
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<211> 107

<212> PRT

<213> Artificial

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<221> MISC\_FEATURE

<223> Part of amino acid sequence of humanised light chain designated h  
umV1 (humV1 = VLh)

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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asn Ile Gly Thr Ser  
20 25 30

Ile Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile  
35 40 45

Arg Ser Ser Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro  
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Thr Trp Pro Phe  
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
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<210> 9

<211> 118

<212> PRT



<213> Artificial

<220>

<221> MISC\_FEATURE

<223> Part of amino acid sequence of humanised heavy chain designated V  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Ile Ile His Trp Val Lys Gln Glu Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Phe Asn Pro Tyr Asn His Gly Thr Lys Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Asn Lys Ser Ile Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Gly Pro Tyr Ala Trp Phe Asp Thr Trp Gly Gln Gly Thr  
100 105 110

Thr Val Thr Val Ser Ser  
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<210> 10

<211> 118

<212> PRT

<213> Artificial

<220>

<221> MISC\_FEATURE

<223> Part of amino acid sequence of humanised heavy chain designated V  
Page 9

HQ

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 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Ile Ile His Trp Val Lys Gln Glu Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45

Gly Tyr Phe Asn Pro Tyr Asn His Gly Thr Lys Tyr Asn Glu Lys Phe  
 50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Asn Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Gly Pro Tyr Ala Trp Phe Asp Thr Trp Gly Gln Gly Thr  
 100 105 110

Thr Val Thr Val Ser Ser  
 115

&lt;210&gt; 11

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Nucleotide sequence encoding amino acid sequence SEQ ID NO:9

&lt;400&gt; 11

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cctggtcagg gccttgaatg gattggatat tttaatcctt acaatcatgg tactaagtac 180

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&lt;210&gt; 12

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Nucleotide sequence encoding amino acid sequence SEQ ID NO:10

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&lt;210&gt; 13

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Nucleotide sequence encoding amino acid sequence SEQ ID NO:7

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gggaccaagc tggagatcaa a 321

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&lt;210&gt; 14

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Nucleotide sequence encoding amino acid sequence SEQ ID NO:8

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gggaccaagc tggagatcaa a 321

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&lt;210&gt; 15

&lt;211&gt; 8687

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

<223> Nucleotide sequence of the expression vector HCMV-G1 HuAb-VHQ  
(Complete DNA Sequence of a humanised heavy chain expression vect  
or comprising SEQ ID NO:12 (VHQ) from 3921-4274)

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## 5509797.txt

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## 5509797.txt

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```

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&lt;211&gt; 8687

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

<223> Nucleotide sequence of the expression vector HCMV-G1 HuAb-VHE  
(Complete DNA Sequence of a humanised heavy chain expression vect  
or comprising SEQ ID NO: 11 (VHE) from 3921-4274)

&lt;400&gt; 16

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## 5509797.txt

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## 5509797.txt

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&lt;210&gt; 17

&lt;211&gt; 9400

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

<223> Nucleotide sequence of the expression vector HCMV-K HuAb-VL1 hum  
V1  
(Complete DNA sequence of a humanised light chain expression vect  
or comprising SEQ ID NO: 14 (humV1=VLh) from 3964-4284

&lt;400&gt; 17

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## 5509797.txt

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## 5509797.txt

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&lt;210&gt; 18

&lt;211&gt; 9362

&lt;212&gt; DNA

&lt;213&gt; Artificial

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&lt;221&gt; misc\_feature

<223> Nucleotide sequence of the expression vector HCMV-K HuAb-VL1 hum  
V2  
(Complete DNA Sequence of a humanised light chain expression vect  
or comprising SEQ ID NO: 13 (humV2=VLm) from 3926-4246)

&lt;400&gt; 18

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